

LEPIDOPTERA IN BRITISH COLUMBIA.

Successful collections of Lepidoptera were made in British Columbia this season at Kaslo by myself, with the assistance of Mr. Caudell and Mr. Currie, and under the advice of Mr. J. W. Cockle. Over 20,300 specimens rewarded our efforts. Of these a large part are Noctuidæ, collected at sugar, showing some very fine series. Nearly 200 larvæ were observed. The material will be worked up at the U. S. National Museum. The National collection has been further enriched by the donation of 548 specimens from Messrs. Taylor, Bryant, Hanham, Bush and Harvey, whom I had the pleasure of meeting at the close of the collecting season.

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THE GENUS *PLATYLABUS*, WESMAEL, WITH DESCRIPTIONS OF TWO NEW SPECIES.

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The table which I here present of the genus *Platylabus* must be considered merely as a preliminary or working table of the species in the collection of the American Entomological Society, or in my own cabinet. The other species, known to me only by description, I have included for the sake of convenience, and have placed a star before their names. I cannot vouch for the correctness of these.

P. thoracicus, Cresson, including *Phygadeuon impressus* of Provancher, which Cresson placed as a synonym of the former, var. *erythropygus*, Prov., of *thoracicus*, and *P. quadricarinatus*, Provancher, I have omitted, as the metathoracic spiracles are nearly or quite circular, placing them in the tribe *Phæogenini*, and probably in either the genus *Apaeticus*, Wesmael, or *Herpestomus*, Wesmael. As I have not seen specimens of *Apaeticus*, I cannot be sure that they belong to it, but from the descriptions it would seem probable, and it is there that I would provisionally transfer them.

Mr. G. C. Davis, in Proc. Acad. Nat. Sci., Phila., 1894, p. 185, from examination of Provancher's types, finds the following synonymy :

crassicornis = Phygadeuon.

mitralis = Phygadeuon.

aciculatus = Phygadeuon.

cincticornis = Cryptus.

The genus is placed by Mr. Ashmead in the Ichneumonini, and has the basal third of the petiole flattened, wider than thick dorso-ventrally, and the scutellum margined to beyond the middle.

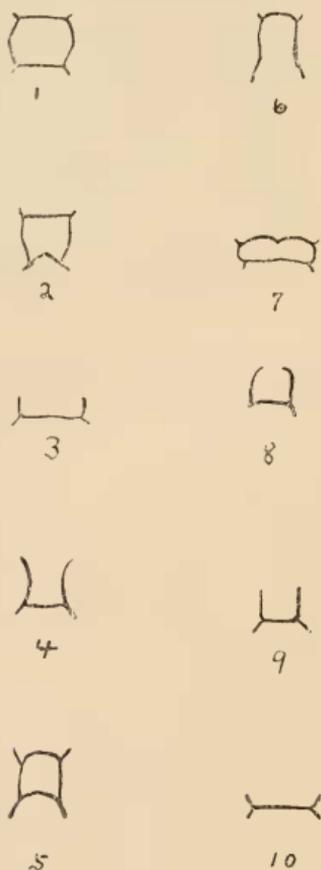


FIG. 13.

EXPLANATION OF FIG. 13.

- | | | | | | |
|-----|--------|----|------------|----|-------------------------|
| 1. | Areola | on | metathorax | of | <i>P. clarus.</i> |
| 2. | " | " | " | " | <i>P. metallicus.</i> |
| 3. | " | " | " | " | <i>P. consors.</i> |
| 4. | " | " | " | " | <i>P. Canadensis.</i> |
| 5. | " | " | " | " | <i>P. montanus.</i> |
| 6. | " | " | " | " | <i>P. Luzernensis.</i> |
| 7. | " | " | " | " | <i>P. signatus.</i> |
| 8. | " | " | " | " | <i>P. ornatus.</i> |
| 9. | " | " | " | " | <i>P. lineolatus.</i> |
| 10. | " | " | " | " | <i>P. Californicus.</i> |

1. Black, or rufous, or both.....3.
Metallic blue; species large; antennæ of female flattened before the apex; joints of flattened portion, broader than long; metathoracic spines very prominent.
2. Areolet on metathorax subhexagonal (fig. 13, 1); apical line not angled; scutellum of ♀ white; antennæ of ♂ without white annulus.....CIARUS, Cresson.
Arolet on metathorax shaped as in fig. 2; scutellum of ♀ black; antennæ of ♂ with white annulus.....METALLICUS, n. sp.
3. Thorax black.....4.
Thorax more or less rufous.....17.
4. Abdomen more or less rufous.
Abdomen entirely black, antennæ with pale annulus; spot on scutellum white.....5.
5. Metathorax with areola polished, shining in centre; legs red, apex femora, tibiæ and tarsi black. Length 5 mm. Prov. Quebec, Canada.....*RUBRICAPENSIS, Provancher.
Metathorax with median and two lateral apical areas transversely reticulate; superior area glabrous; tergum of petiole polished; postpetiole shagreened; legs clear, ferruginous, with apex of hind tibiæ and tarsi black. Length 9 mm. Idaho....*INCABUS, Davis.
6. Second segment only of abdomen red.....7.
More than second segment of abdomen red.....8.
7. Wings hyaline; anterior orbits enlarged below; antennæ with white annulus, third joint very short and red; metathorax finely punctured, pubescent, carinæ not prominent; legs black, the four anterior red in front; posterior femora red at base, and a more or less distinct red ring at base of posterior tibiæ; petiole polished, long; abdomen with white spot at its extremity; second and base of third segment stained red. Length 7 mm.....*SCUTELLATUS, Provancher.
8. Antennæ with pale annulus.....12.
Antennæ without pale annulus; scutellum black.....9.
9. Petiole aciculated.....10.
Petiole polished; abdomen entirely rufous (in one specimen darker); face white, with median black band; metathoracic spines and carinæ but slightly marked; discocubital nervure with a more or less distinct stump of a vein. ♂.....CONSORIS, Cresson.

10. Antennæ black, slightly thickened beyond the middle; abdomen polished; 2 dorsal carinæ of petiole not reaching apex; carinæ on metathorax indistinct, angles subspinose; legs rufous; coxæ and trochanters black; abdomen red. Length 9 mm. *PACIFICUS, Harrington.
- Antennæ red, in ♂ black at apex, *much thickened at apex*; metathorax with distinct carinæ; face finely punctate; petiole large at apex. Length 5 mm. *RUFICORNIS, Provancher.
12. Petiole broad at apex; scutellum entirely white; generally no white between eyes and mandibles, but a white line between antennæ and eyes, between pro- and mesothorax, and between pleura and dorsum of mesothorax. 14.
- Petiole slender, narrow at apex, not very rough, black; apex red; following 3 joints abdomen red; no white on thorax or face, except between the eyes and the mandibles and the apex of scutellum; flagellum rufous at base. Length of antennæ 9 mm., of insect 8 mm. CANADENSIS, Cresson.
14. Dorsum of 3 basal abdominal segments piceous, rest of abdomen rufous; face, mouth-parts, broad orbital lines, cheeks, neck, stripes on mesonotum, most of pleura and sternum, large spot on metapleura, apical spot on metathorax (but black in centre), petiole, broad margin of remaining segments and parts of legs white; carinæ on metathorax prominent, spines long; petiole scabrous, with two distinct carinæ. Length 8 mm. FOXI, Davis.
- Abdomen red, apical portion more or less dark; only an anterior orbital line, ring on antennæ, scutellum and humeral lines white. 15.
15. Abdomen long and narrowly oval; face uniformly and closely punctured, not polished; anterior orbital line reduced to a mere short stripe; antennæ long, 6 mm.; basal joints of flagellum more than twice as long as broad; metathoracic carinæ well marked; spines not prominent; apex of petiole aciculated; base of second segment shagreened; abdomen red; base of petiole darkened. Length 7-8 mm. MONTANUS, Cresson.
- Abdomen short and very broadly oval; face sparingly punctured, smooth and polished anteriorly and on clypeus; white line in front of eyes long and broad; antennæ short, 4 mm.; basal joint of

- flagellum not twice as long as broad; metathoracic carinæ and spines prominent; petiole smooth, polished; second segment of abdomen evenly punctured; abdomen red; apex of 4th and base of 5th segments black, rest of apex white. Length
6.5 mm.....LUZERNENIS, n. sp.
17. Thorax entirely rufous.....22.
Thorax more or less black.....18.
18. Scutellum white; pleura, propodeum and legs rufous; white annulus on antennæ.....19.
Scutellum black or rufous.....21.
19. Antennæ as long as body, or longer.....20.
Antennæ considerably shorter than body; anterior orbital line white, interrupted medially; metathoracic carinæ and spines inconspicuous; petiole broad apically, roughened, very finely subaciculate; abdomen moderately broadly oval, rufous; fifth segment fuscous, apex white.....SIGNATUS, Provancher.
20. Antennæ longer than the body; anterior orbital broad, not interrupted, also a fine posterior orbital line present; a bright white stripe on anterior margin of prothorax; propodeum, legs, pleura, stains on mesonotum and abdomen, except base of petiole, rufous; metathoracic carinæ and spines somewhat more strongly marked than in *signatus*; petiole not so broad apically, and abdomen more narrow and longer than in that species; petiole sub-polished at apex, laterally carinate.....ORNATUS, Provancher.
- Antennæ as long as body; prothorax, mesonotum and abdomen beyond second segment black, remainder of insect rufous; broad orbital lines, face except transverse spot above clypeus, clypeus except central apical spot, scape beneath, collar, humeral line, line beneath each wing, stripes on mesonotum and mesopleura, two spots on metathorax above hind coxæ, broad apical margin on all abdominal segments, more or less of anterior coxæ and trochanters, white, apex of femora, apical third of tibiæ posteriorly and tarsi of hind legs black; metathorax rugose; superior area subpolished; petiole very broad, finely and rather sparsely punctured.....*BAKERI, Davis.
21. Antennæ without white annulus. One specimen of *consors* that I have seen has the propodeum slightly
rufous.....CONSORIS, Cresson (pars.)

22. Antennæ with white annulus, rufous at base, black at apex; abdomen and petiole rufous, smooth polished, without carinæ.....LINEOLATUS, Provancher.

Antennæ without white annulus..... 23.

23. More or less shiny; rufous, stains of black on mesothorax; third abdominal segment rufous; legs all red; areolet in wings moderate in size; base of metathorax punctured, carinate; postpetiole not very broad, polished, but sparingly punctured.....CALIFORNICUS, Cresson.

Opaque; pale ferruginous; base of third abdominal segment and apex of posterior tibiæ black; areolet in wings very large; base of metathorax rugose and without carinæ; postpetiole very broad and shagreened.....*OPACITUS, Davis.

1. P. CLARUS, Cresson. ♀. ♂.

1867. *Ichneumon clarus*, Cresson, ♀. Tr. Amer. Ent. Soc., Vol. I., p. 297.

1877. *Platylabus clarus*, Cresson, ♀. ♂. Tr. Am. Ent. Soc., VI., p. 199.

1886. *Platylabus magnificus*, Provancher, ♀. Add. Faun. Hym. Can., p. 36.

This, and the following species, are easily distinguished by their large size and brilliant blue colour. Areola, shown in figure 1, from the description *magnificus*, Prov., must belong here.

Habitat.—Mass.; Bécancour, Can. (*magnificus*).

Type in coll. American Ent. Society.

2. P. METALLICUS, n. sp. ♀. ♂.

Bright metallic blue; wings hyaline; white annulus on antennæ; metathoracic area shown in fig. 2. Length of antennæ 12 mm.; of insect 12 mm.

♀. Metallic blue; anterior orbital line interrupted medially, short posterior line, annulus on antennæ, front tibiæ and apex of femora anteriorly, trace on middle femora and tibiæ anteriorly, white; remainder of front 4 tibiæ and tarsi and posterior tarsi ferruginous; clypeus broadly truncate, labrum prominent, face narrowed in front of eyes; base of clypeus marked by suture, two longitudinal,

well-impressed, grooves on face, which is evenly and closely punctured; antennæ as long as the body, thickened and flattened beyond the apex, the joints of flattened portion broader than long; thorax evenly punctured, more densely on the pleura; scutellum slightly reddish at apex; metathorax above and at apex transversely wrinkled, areola smooth, polished, carinæ well marked, tooth at hind angles large and distinct; wings hyaline; abdomen shagreened, especially at base of second segment; petiole with two very well marked and angular carinæ, not reaching apex; postpetiole finely shagreened; gastrocæli large.

♂. Metallic blue; face, anterior and posterior orbital lines, mandibles, annulus on antennæ, scape beneath, short line beneath the wings, scutellum, anterior legs in front, coxæ, trochanters, tibiæ, tarsi and apex of femora in front white, rest of tibiæ and tarsi of front 4 legs and tarsi of posterior legs ferruginous. In other respects like the female.

The type ♀ of this species was included by Cresson in his redescription of *clarus* in Tr. Am. Ent. Soc., VI., 1877, p. 199, and was the exception which he made as to the white scutellum of that species. The male specimen was added to the collection afterwards, and differs from the male of *clarus* in having the white annulus on the antennæ, as well as in the metathoracic character.

Habitat.—N. H. (♀ type). Me. (♂ type).

Types.—In the collection of the American Entomological Society.

3. *P. RUBRICAPENSIS*, Provancher, ♀.

1882. *Platylabus rubricapensis*, Provancher, ♀. Nat. Can., XIII., p. 329.

Habitat.—Cap Rouge, Canada.

4. *P. INCABUS*, Davis, ♀.

1897. *Platylabus incabus*, Davis, ♀. Tr. Am. Ent. Soc., XXIV., p. 352.

Habitat.—Moscow, Idaho (Aldrich).

5. *P. SCUTELLATUS*, Provancher, ♀, ♂.

1875. *Ischnus scutellatus*, Provancher. Nat. Can., VII., p. 111.

1877. *Platylabus scutellatus*, Cresson. Tr. Am. Ent. Soc., VI., p. 200, ♂.

Habitat.—Cap Rouge, Canada.

6. *P. CONSORS*, Cresson, ♂.

1877. *Platylabus consors*, Cresson, ♂. Tr. Am. Ent. Soc., VI., p. 200. Cresson says this may be the male of *Californicus*. See figure 3.

Habitat.—California.

Types.—In the collection of the American Entomological Society.

7. *P. PACIFICUS*, Harrington, ♀.

1894. *Platylabus pacificus*, Harrington, ♀. Can. Ent., XXVI., p. 210.

Habitat.—Vancouver's Island (Taylor).

8. *P. RUFICORNIS*, Provancher, ♀, ♂.

1886. *Platylabus ruficornis*, Provancher, ♀, ♂. Add. Faun. Hym. Can., p. 38.

Habitat.—Ottawa, Canada (Harrington).

9. *P. CANADENSIS*, Cresson, ♀.

1877. *Platylabus canadensis*, Cresson, ♀. Tr. Am. Ent. Soc., VI., p. 200. Figure 4.

Habitat.—Canada.

Type.—In the collection of the American Entomological Society.

10. *P. FOXI*, Davis, ♂.

1897. *Platylabus Foxi*, Davis, ♂. Tr. Am. Ent. Soc., XXIV., p. 353. This species has much more white on it than any other. Most of the males of the genus have more white than the females, and when the female of this species is known it will doubtless be less plentifully supplied with white.

Habitat.—Camden, N. J. (Fox).

11. *P. MONTANUS*, Cresson, ♀.

1877. *Platylabus montanus*, Cresson, ♀. Tr. Am. Ent. Soc., VI., p. 200. Figure 5.

Habitat.—N. H.

Types.—In the collection of the American Entomological Society.

12. *P. LUZERNENSIS*, n. sp., ♀.

Black; abdomen and legs mostly rufous. Length, 6.5 mm. See figure 6.

♀. Anterior orbital lines not broad nor continued below the eyes, a short line behind the eyes near their top; annulus on antennæ,

humeral line, line below the wings and scutellum white; legs rufous, except coxæ and trochanters and knees, tarsi and apex of tibiæ of hind legs, which are fuscous. Remainder of insect as described in the table. A quite distinct species.

Habitat.—White Haven, Luzerne Co., Pa., Aug. 15, 1902. (Taken by the author.)

Type.—One female, in the author's collection.

13. *P. SIGNATUS*, Provancher, ♀.

1874. *Phygadeuon signatus*, Provancher. Nat. Can., VI., p. 282.

1877. *Platylabus signatus*, Cresson. Tr. Am. Ent. Soc., VI., p. 200.
Figure 7.

Habitat.—P. Que., Canada.

14. *P. ORNATUS*, Provancher, ♀.

1875. *Phygadeuon ornatus*, Provancher, ♀. Nat. Can., VII., p. 181.

1877. *Platylabus ornatus*, Cresson. Tr. Am. Ent. Soc., VI., p. 200.
Figure 8.

Habitat.—P. Que., Canada.

15. *P. BAKERI*, Davis, ♂.

1897. *Platylabus Bakeri*, Davis, ♂. Tr. Am. Ent. Soc., XXIV.,
p. 352.

Habitat.—Ann Arbor, Mich. (Baker).

16. *P. LINEOLATUS*, Provancher, ♀.

1875. *Ichneumon lineolatus*, Provancher. Nat. Can., VII., p. 82.

1875. *Phygadeuon rufipes*, Provancher. Nat. Can., VII., p. 181.

1877. *Platylabus lineolatus*, Cresson. Tr. Am. Ent. Soc., VI., p. 201.
Figure 9.

Habitat.—P. Que., Canada.

17. *P. CALIFORNICUS*, Cresson, ♀.

1877. *Platylabus californicus*, ♀. Tr. Am. Ent. Soc., VI., p. 201.

Close to the preceding species. Figure 10.

Habitat.—California.

Types.—In the collection of the American Entomological Society.

18. *P. OPACITUS*, Davis, ♂.

1897. *Platylabus opacitus*, Davis. Tr. Am. Ent. Soc., XXIV., p. 353.

Habitat.—Moscow, Idaho (Aldrich).